

# Quasi-stationary Distributions and their Applications

**Hanjun Zhang** *School of Mathematics and Computational Science, Xiangtan University, P. R. China.,*  
E-mail: hjz001@xtu.edu.cn

KEY WORDS: quasi-stationary distribution; domain of attraction; interesting particle system

MATHEMATICAL SUBJECT CLASSIFICATION: 60J25; 37A25; 60B10.

**Abstract:** Let us begin with the talk by recalling the key three questions of quasi-stationary distributions (QSDs); and then we shall talk about many new progresses on above the key three questions of QSDs. Finally, we shall discuss the applications of QSDs; especially, we shall talk about how to apply the QSD's results in the interesting particle system etc.